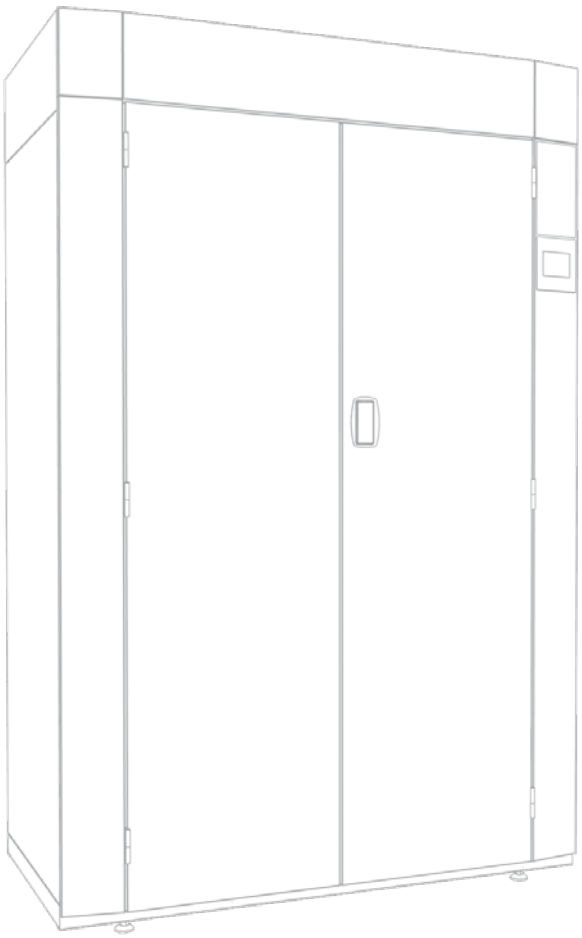

Installation and operation manual

Drying cabinet with 8 kg cloth capacity

535897

Thank you for choosing this drying cabinet. We hope that it will be of great use for you and ask you kindly to read the instructions carefully.

IMPORTANT!

FOR YOUR SAFETY, the information in this manual must be followed to prevent property damage and personal injury.

NOTE: The paragraphs marked “WARNING” and “CAUTION” appearing in this manual are not meant to cover all possible conditions and situations that may occur. It is very important that water and electricity are handled with great care and respect, by both installation technicians and end users.

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Safety regulations

Throughout this manual you will find text warnings in text boxes: “WARNING” and “CAUTION”. In these boxes you’ll find the safety measurements you’ll have to take; end user, service staff or installation staff.

CAUTION

Indicates hazardous situation that, if not avoided, could cause minor personal injury or property damage.

WARNING

Indicates hazardous situation that, if not avoided, could cause severe personal injury.

You will also find precautions marked: IMPORTANT and NOTE. These are followed by information of what should be considered.

IMPORTANT: to inform the reader of special steps that must be taken in order to prevent injuries on the cabinet.

NOTE: to inform what is important to know, but it cannot cause personal injuries or injury on the cabinet.

Important safety instructions

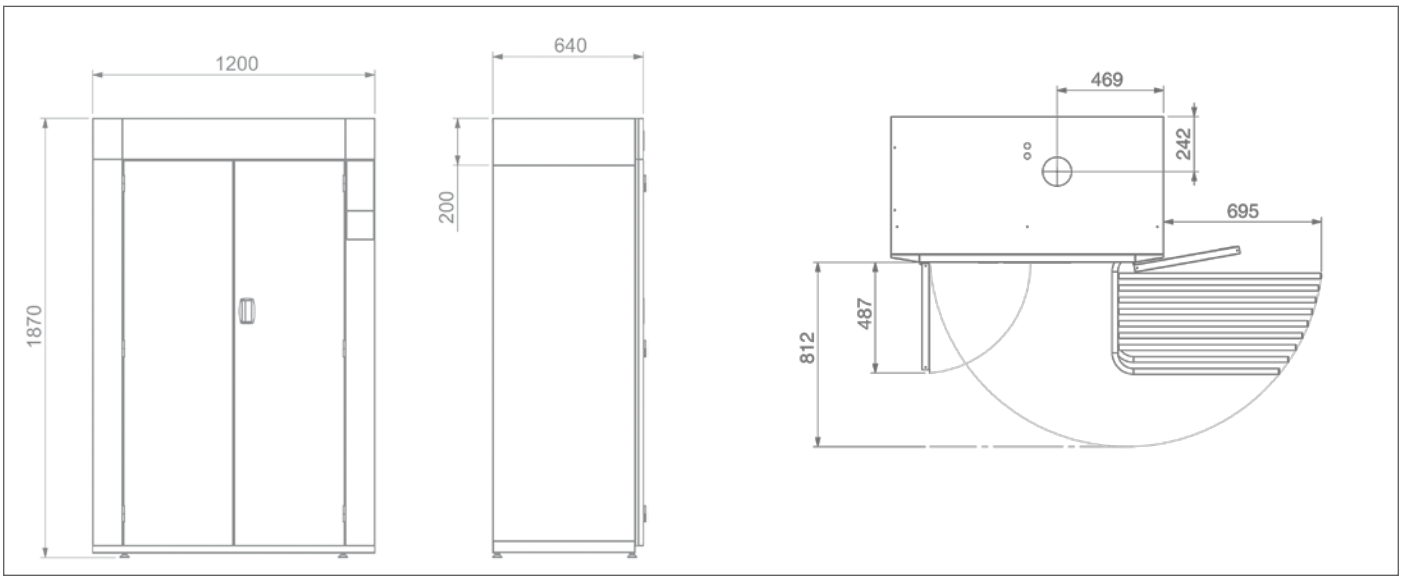
WARNING

To minimize the risk of fire, electrical shock, personal injuries or death when the cabinet is in use the following precautions must be followed:

1. Read the instruction before using the drying cabinet.
2. Follow the instructions in step 4 for proper grounding.
3. Never dry textiles that have been washed, dipped or exposed to fire dangerous substances or fluids.
4. Never add fire dangerous or explosives substances in the cabinet.
5. The cabinet is not a toy. Look after the children who are around the cabinet.
6. Never connect the cabinet with an extension cable.
7. Only use the cabinet for what it is designed for: drying clothes.
8. Always turn off the main switch before performing any service on the cabinet. Only authorized service technicians should perform service.
9. Always follow the installation manual. The electrical connections must be done by authorized personnel.
10. Keep after the cabinet. If it is exposed for violence there is a risk that certain security functions will stop working. Please contact your nearest service partner if you are unsure of the cabinet's status.
11. If the electrical cable is damaged, it must immediately be changed by a person with electrical authorization.
12. The doors shall always be shut when the cabinet is in use. Don't try to manipulate the lock of the doors. It can lead to personal injuries. If the cabinet doesn't stop when the doors are opened during the drying phase, call for service. The cabinet shall not be used if the drying program is active when the doors are open!
13. Look after the area around the evacuating pipe so it is clean from dust and dirt.
14. To get the best drying result, follow the garments washing & drying advice.
15. Never use the cabinet if any panel is broken or removed.
16. Never use the cabinet if any parts are broken or if the inside is broken.
17. Never try to manipulate or connect past any safety functions.
18. If the cabinet isn't assembled after the manufacturer's instructions, there is a risk that the cabinet can cause personal injuries or injuries on property.

Installation

Dimensions and specifications



Technical information

Loading capacity, kg/lbs	up to 8 kg/17,6 lbs
Drying capacity, g/min *	78
Hanging length, m	17
Drying time, min *	40
Evacuated air, max, m³/h	240
Heating effect, kW	6,0
Total effect, kW	6,3
Energy consumption/kg, kWh	0,6
Part No	131025

*Drying of 6 kg cotton (dry weight), washed and high-spinned to 53% residual moisture. The cabinet works another 15 minutes with cool-down after the textiles are dry. Compared to earlier models, this cabinet has 25% lower energy consumption!

Before you start

Tools

You need the following tools to easily install the drying cabinet:

- Cross head screwdriver
- Wrench
- Hex Key
- Level
- Torx driver (if the top shall be disassembled)

Evacuating duct

If possible, use rigid metal channels. For best result, keep the air channels as short as possible.

Electricity demands

The drying cabinet shall be installed with a 5-pole cable. The cabinet is build to be connected to 3-N, 400 V, 50 Hz and a 10 A fuse.

NOTE: If the cabinet is delivered when it is below 0°C, the cabinet should be kept inside until it reaches room temperature before it is turned on.

IMPORTANT: The cabinet shall be installed in a room were the ventilation demands are fulfilled. To get maximum effect, the air change must be higher than what is recommended in this manual.

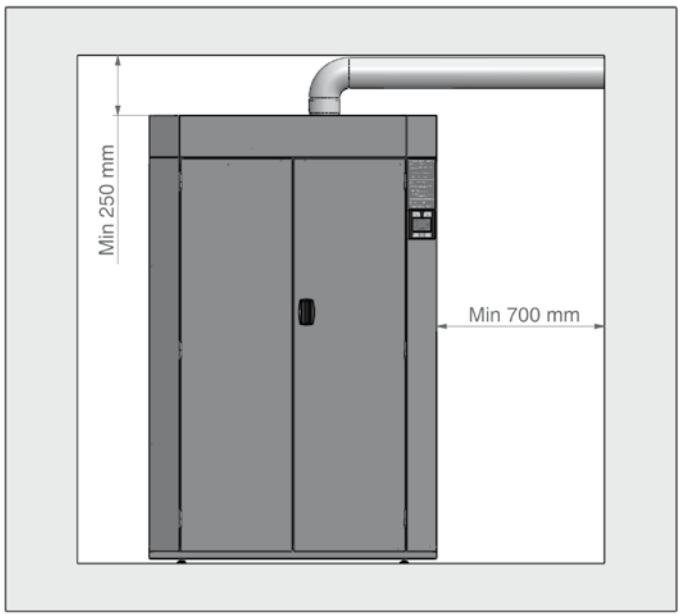
Installation of the cabinet

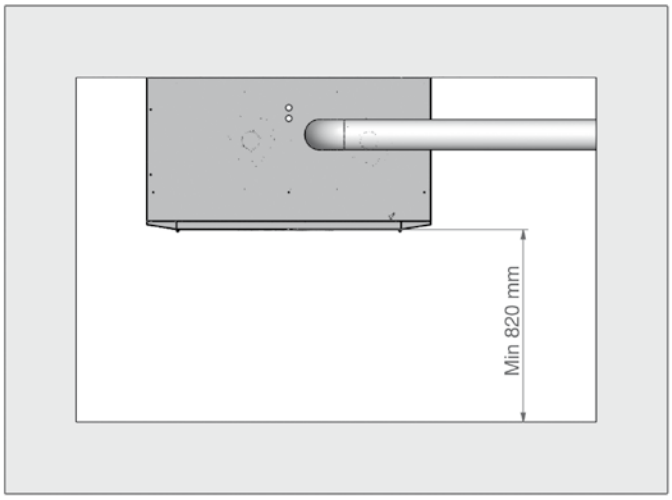
Step 1: Put the cabinet in place

Wrap off the cabinet. It is secured to the pallet with two screws, one at the front to the left and one in the back to the right. Loosen these screws from the inside and keep them. They can be used if you need to secure the cabinet to a wall. Remove the scratch protection on the upper part of the doors.

NOTE: We recommend that the cabinet is installed on a firm and leveled floor.

Place the cabinet so that the hanging frame can rotate and that there is enough space in front of the cabinet and on the sides (see picture below). If needed, the hanging frame can be turned, se page 9.





Please observe that the front panel (on the top) must have at least 175 mm free space above, in order to take off the top to perform service.

Assembling the feet

The feet of the cabinet are assembled from the outside, at the bottom of the cabinet. It can be adjusted from the inside with the help of a Hex Key. All feet must stand free on the floor and have an even weight distribution, please note that you cannot tilt the cabinet. Use a leveler and control that the cabinet is leveled; horizontally and vertically.

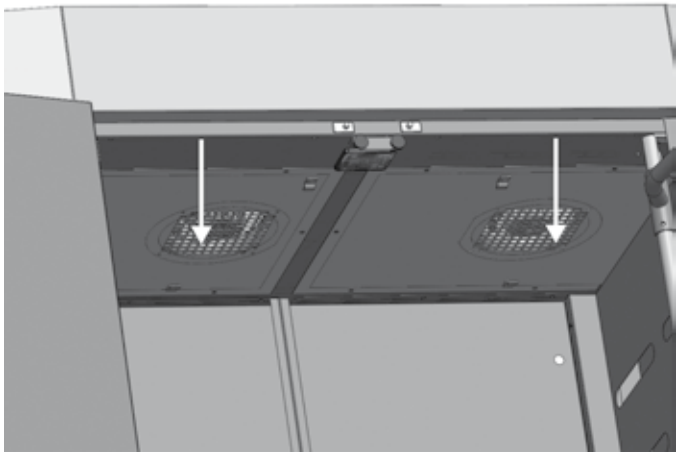
Narrow spaces

If the cabinet must be transported through narrow spaces, we recommend that you take off the doors first. It will simplify the handling and reduces the risk for damages on the doors.

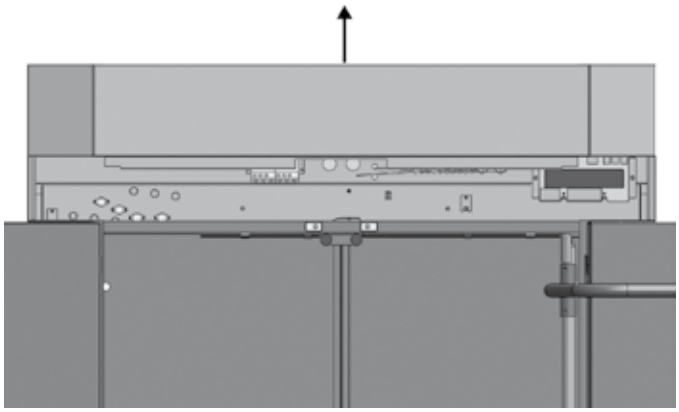
Demounting of the top

To simplify the transport of the cabinet, the top can be demounted, see the instructions below.

1. Loosen the two screws which hold the front panel of the top.

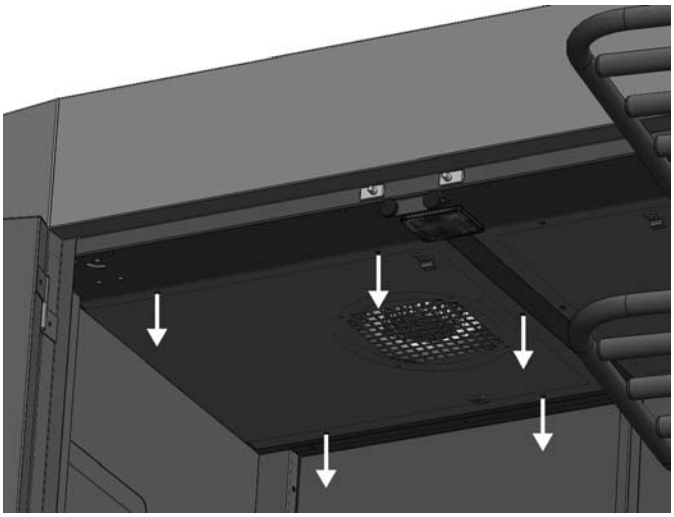


2. Push the panel upwards.

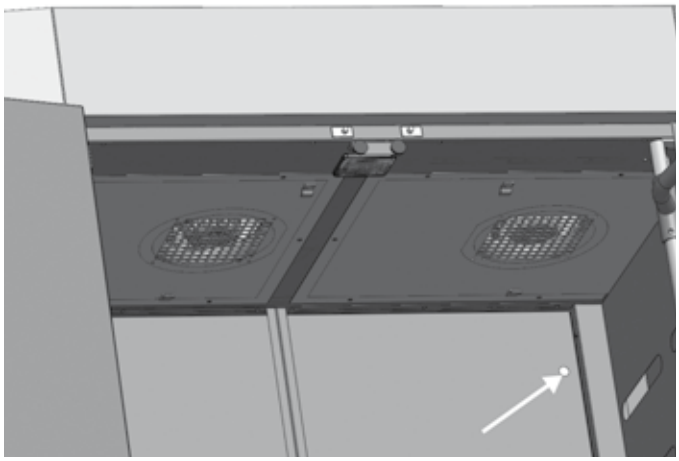


3. Disconnect the cables (connected to the LCD and maneuver panel) from the mother board. Loosen the bulb's connection plinth marked "Light".
4. From the inside of the cabinet, loosen both service hatches which cover the fans. 5 screws on each service hatch.
5. Lift off the top.

Step 2: Fasten the cabinet to the wall



The screws and washers that secured the cabinet during transport can be used again when you want to make sure the cabinet will not tilt. You will find the fastening points in the back plates. (See picture.) Use the stoppers and washers if the cabinet cannot stand tight to the wall.



Please control that the cabinet still is leveled and cannot be tilted.

CAUTION

There must be two persons to lift the top in a safe way. Don’t try to do it on your own, the weight is 30 kg!

Step 3: Connect the cabinet to the ventilation channel

For further instructions, se page 13: Demands for ventilation.

- Do not use ventilation channels made of plastic or foil.
- Place the cabinet so that the ventilation channel becomes as short as possible.
- Make sure that the ventilation channel is cleaned when a new cabinet is installed.
- Use a 125 mm rigid or flexible metal duct to the evacuation connection.
- If you use rigid ducts, it is important that the male connector of the ventilation tube on each section follows the air direction.
- The construction shall be as straight as possible.
- Always isolate ducts that go through non-isolated areas. The condensation makes dust and dirt fasten in the channel.

NOTE: If the cabinet isn't connected according to these recommendations, the warranty is no longer valid.

Step 4: Connect the drying cabinet to the main switch

NOTE: Only an authorized technician is allowed to perform the electrical connection of the cabinet.

The cabinet is prepared for electrical connections: 400 V, 3-N, 50 Hz.

WARNING

To prevent that fire and electric shock appear, the cabinet MUST be connected according to the color codes on the cables.

It is always the buyer that has the responsibility to check that an authorized electrician makes the electrical connections of the cabinet.

WARNING

To prevent personal injuries, the cabinet shall always be connected permanently through an all pole main switch. Always ground the cabinet!

Also check that the connecting cable has a strain relief bushing. If not, there is a risk that the cabinet will be live.

Step 5: Control that the heating relay is working

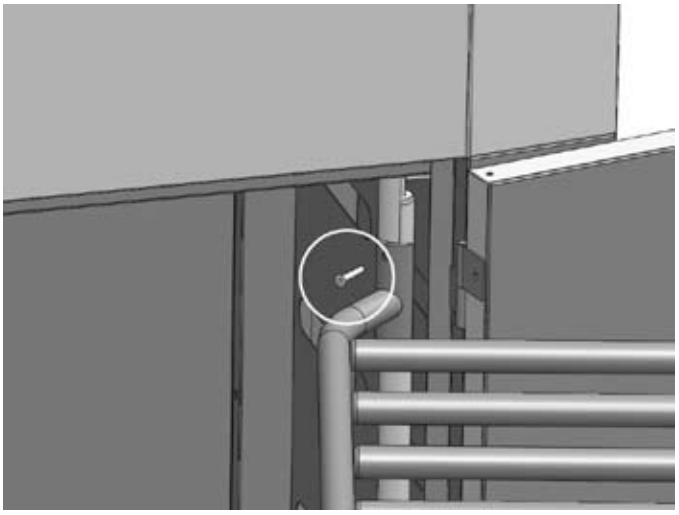
Shut the doors and start the cabinet with a program that uses heat, after about 3 seconds you can hear when the heat relay hits. Wait a couple of minutes and control that the outgoing air channel becomes warm.

If the outgoing air channel doesn’t get warm, go back to step 4 and control that the electrical connection is done correctly.

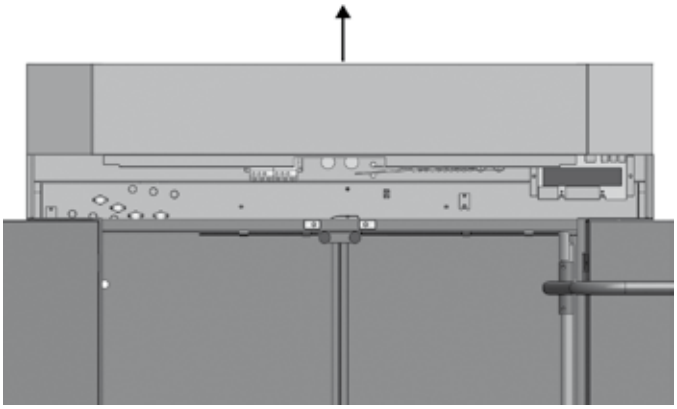
Turn the hanging frame

The hanging frame can be turned. Follow the steps below.

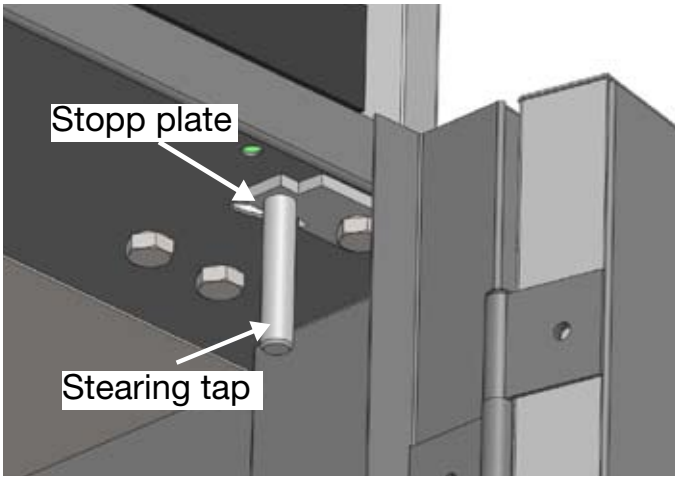
1. Loosen the upper Hex Key bolt, which holds the upper hanging level.

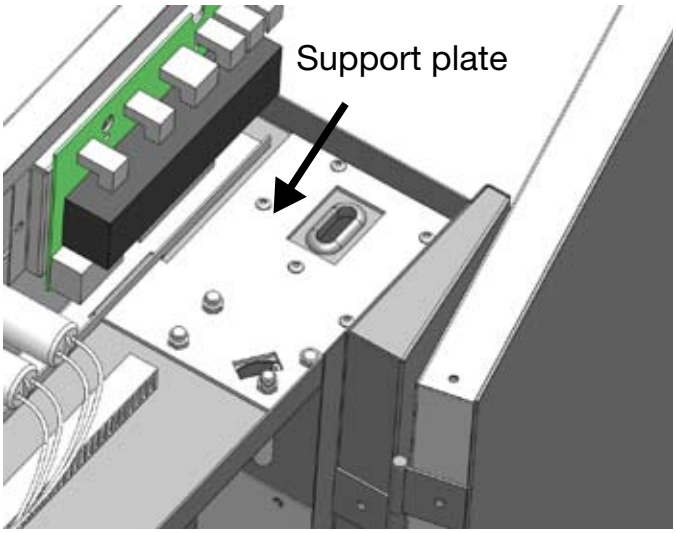


2. Lift up the hanging frame and hook it off the tap below. Put aside.
3. Loosen and push the panel on the top.

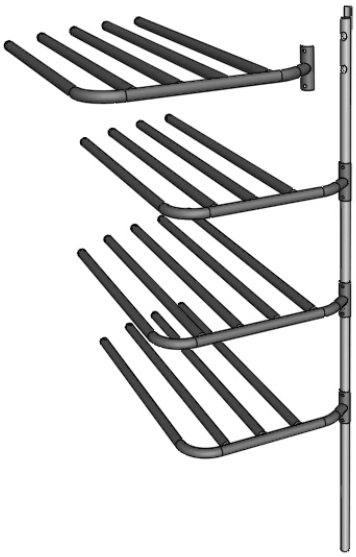


4. Loosen the three bolts, the upper stearing tap and nut and the five torx screws which hold the plate and which support the stop plate. The drawings below shows where these parts are.

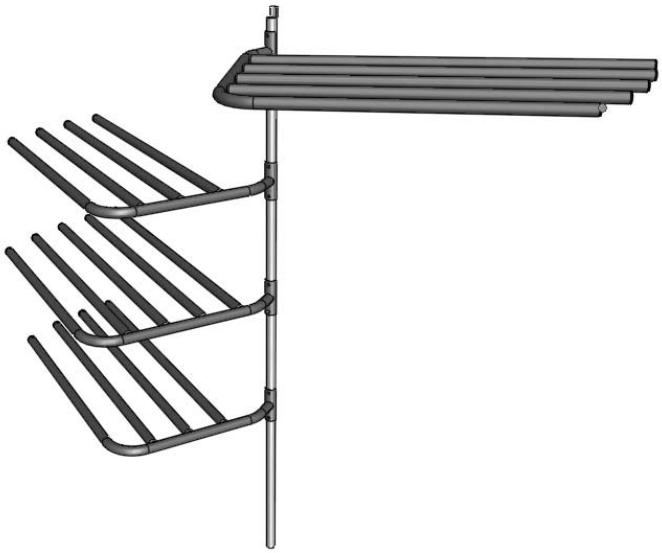




5. Unconnect the two cables which go from the keypad and LCD to the main control board.
6. Lift up the plate and remove the cables. Connect the cables to the card again.
7. Before the suport-plate is assembled on the other side of the cabinet; loosen the five torx screws on the left hand side.
8. Put the support-plate on the side to which the hanging frame will be moved.
9. Re-assemble the torx screws. Thereafter, fasten the bolts, upper stearing tap and the stop plate.
10. Put the front panel back on again.
11. Loosen and move also the lower tap to the opposite side.
12. To get the arms on the frame on the same level, each hanging level must be turned “upside down”. Loosen the upper hanging level from the frame.



13. Rotate the hanging level 180° and fasten it again. Leave the upper bolt on the pole, unmounted.



14. Repeat the same moment with the three remaining hanging levels. Fasten both bolts.
15. Put the frame back in and put the pole on the upper tap. Lower the pole so that it fits to the lower stearing tap.
16. Fasten the Hex Key bolt on the upper hanging level.
17. Control that the frame can be turned and that the stop function works properly also in the outer positions.

Requirements for ventilation

WARNING

A drying cabinet produces inflammable dust. To minimize the risk for fire, the evacuation of the cabinet must be connected to a ventilation channel that blows out the air.

Never let the evacuated air into a room or a surrounding where there is a risk for ignition.

Do not use ventilation channels in plastic or fire dangerous material.

Ventilation channel – choice of material

Ventilation channel, ducts, connections etc are not included.

The ventilation channels shall be at least 125 mm, in diameter and should not have channels or similar on the inside.

We recommend that the ventilation system is built with rigid metal ducts for best result. Flexible evacuating ducts for drying cabinets can also be used.

NOTE: Never use flexible ducts through walls or other covered areas.

NOTE: Do not screw or nit the ventilation channel, so that the screws will come through the inside of the pipe. This construction will gather dust and deteriorate the cabinet's performance.

The channel shall always be separated from the other ventilation in the house.

Requirements for incoming air

In order to make the cabinet work properly, it is very important that there is enough incoming air in the room. The incoming air must be at least 200 m^3/hour.

If the cabinet is placed in a room where the incoming air isn't enough, we recommend that you install an air exchanger. Contact the manufacturer for more information.

Ventilation channel – design

IMPORTANT: Always make the channels as short as possible.

NOTE: If a drying cabinet is installed in an old ventilation channel, please clean the channel properly.

In order to make the cabinet work properly, the incoming airflow must be enough. The amount of evacuated air per hour is depending on how high the pressure fall in the ventilation channel is.

Material, design and the length of the channel have a large impact on the air flow. In order to get the best possible performance, the pressure fall shall be as low as possible.

When the air is transported through the channel, it is exposed the whole time to different kind of resistance. Factors that give a low pressure fall:

- Smooth inner walls on the pipe
- Large diameter on the pipe
- Short length on the pipe
- Few curves
- Few angels (90 degrees)

Evacuated amount of air and pressure fall

In order to get the drying cabinet to work properly, the ventilation channel shall be designed to get an out coming air flow from the cabinet of 150 m³/h. When the cabinet is installed to an existing channel system, the cabinet can be calibrated to optimize the air flow.

In order to gain this air flow, the pressure fall must not exceed 55 Pa. By an airflow of 150 m³/h and a diameter of the pipe of 125 mm, this corresponds to a straight, smooth ventilation channel of 44 m.

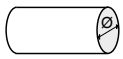
Pressure fall estimation

The counter pressure in the ventilation channel can be measured with the help of a pressure meter. The measuring point shall be placed by the cabinets evacuating outlet.

In order to estimate the pressure fall without meter equipment the following facts can be used. We recommend:

- Identify the ventilation channel's incoming components in the air flow direction.
- Check the part pressure fall for each component in the table.
- Calculate the total amount for the pressure fall by adding each part pressure fall.

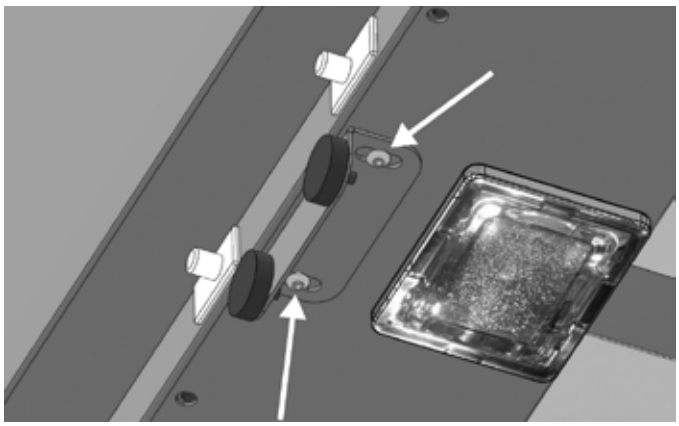
The table shows the most common components in a ventilation system. The information in the table shall be considered as approximate data. For more information, contact the manufacturer of the parts of the system. Please note that the data in the table are for an air flow of 150 m³/h.

Component			**Part pressure fall**
Circular channel	Diameter, mm		Pa/m
	125		1,3
	160		0,4
Pipe bends 90°	Diameter, mm	Radius, mm	Pa/bend
	125	125	3
	125	190	1,5
	160	160	1,2
	160	240	0,9
Reduction	Transition, mm		Pa/reduction
	125 till 160		0,2
	160 till 125		2

Example: 6 m long 125 mm channel with 3 pipe curves which gives an estimated pressure fall of (6x1,3)+(3x3)=16,8 Pa.

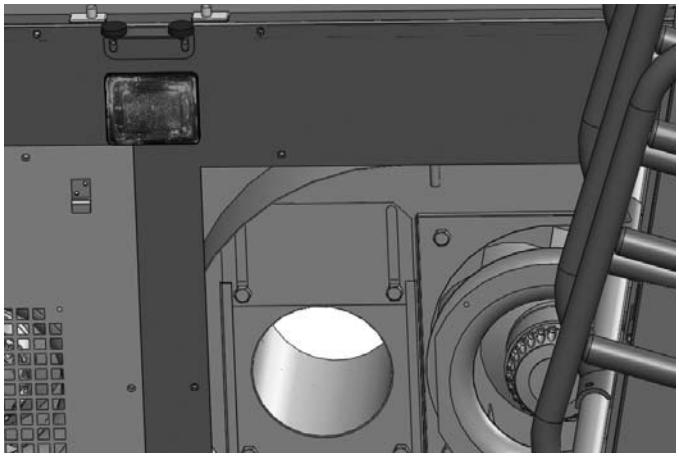
Increase the outgoing air flow

The drying cabinet gets its air from the small space between the doors and the cabinet. An increased incoming air flow gives automatically an increased outflow. The doors are kept in place by two magnets, which both are assembled to a bracket. To increase the incoming air flow, loosen the two screws on the bracket and push it forward.

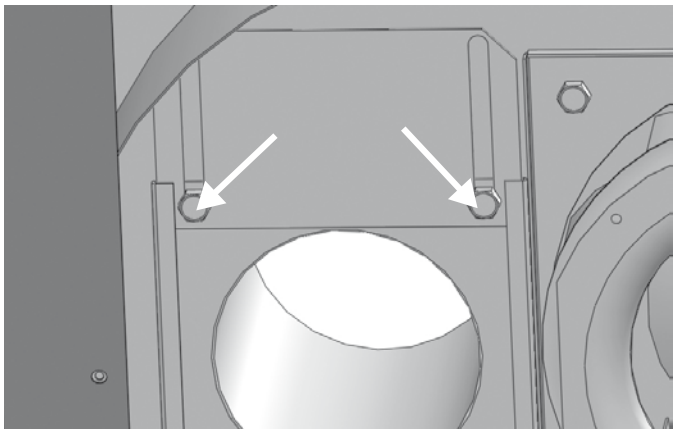


Increase the outgoing air flow

The cabinets function and automatic programs are optimized for the recommended air flow of 150 m3/h. If the design of the ventilation is made so that evacuated air flow exceeds 150 m3/h, the evacuation can be throttled with help of a damper. The damper is placed below the slipstream. In order to reach the damper, loosen the right service hatch from the inside.



Loosen the two bolts which lock the damper. Push it alongside the track so evacuated air flow is throttled to the optimized level.



NOTE: If the highest allowed level of air pressure is exceeded an extra fan is needed. If you don't use an extra fan, the drying result is effected negatively. The drying cabinet is prepared for an extra fan. Contact your local dealer or the manufacturer for more information.

User manual

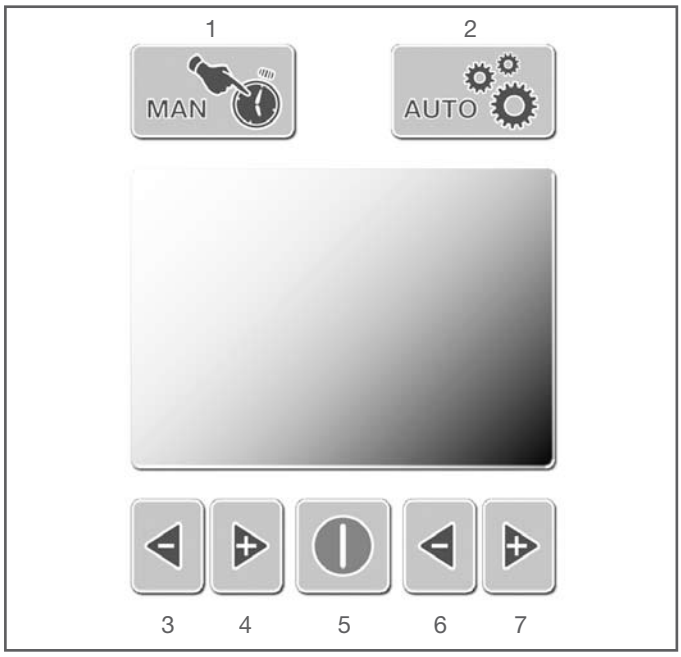
Fill the cabinet

To get the best drying result: try to dry the same type of material with the same thickness at the same time. Distribute the clothing evenly in the cabinet. Never fill the cabinet with more than 8 kg laundry (dry weight). The most heat sensitive garment decides how high temperature that can be chosen.

Close the doors

The drying cabinet won't start until the doors are completely closed.

Keypad



1. Manual program mode
2. Automatic program mode
3. Reduce the temperature*
4. Increase the temperature*
5. Start/stop the program
6. Reduce the time*
7. Increase the time*
8. LCD-display

*Will also change program when you're in the automatic program mode.

Manual program mode

In order to set the time and temperature, push key no 1. LCD-display shows the settings for manual programs. The cabinet is preset on average temperature 60ºC and 45 minutes drying time.

Set the temperature

Increase or reduce the temperature with the arrow buttons 3 and 4.

There are three levels:
Minimum (MIN) = 40ºC
Medium (MED) = 60ºC
Maximum (MAX) = 80ºC

The degrees stated above, show the maximum temperature on the warm air stream. Around the coat hangers in the cabinet, the temperature is lower.

Set the time

Increase or reduce the drying time with the arrow buttons 6 and 7. The drying time can be increased to maximum 2 h. Lower temperature requires longer drying time.

Start

Push button 5 to start the cabinet.

Pause program

To pause a working program, open the doors. The drying time is paused. The cabinet will start automatically when the doors are closed again. If the doors are left open for longer than 10 minutes, the program is interrupted.

Change temperature or time during drying

Temperature and time can be adjusted as the drying process is on and the program is in the heating phase. When the cabinet switches to cool down, neither time nor temperature can be changed. Read more about cool down below.

Interrupt a program

To interrupt a working program, push the START/STOP button, 5.

Automatic program mode

HTS...
Humidity Tracking System

The drying cabinet is equipped with the function HTS – Humidity Tracking System. This function is activated in the automatic program mode. The drying time adjusts to the laundry in the cabinet and is controlled by a humidity sensor.

To choose automatic program mode

Choose automatic program mode by pushing button 2.

The cabinet has two automatic programs; wardrobe dry and iron dry. By choosing either of those programs, the drying time is adjusted automatically

Maintenance

Program wardrobe dry

When automatic mode is activated, the program “wardrobe dry” is set as first choice. Cupboard dry means that the clothes are completely dry when the program is finished.

Program iron dry

To change automatic program, push button no 2 once more. Program “iron dry” dries the clothes until about 15% residual moisture is left in the textiles. Use this program when you have clothes that shall be ironed or mangled directly after the drying.

Automatic programs; temperature

Automatic program uses the maximum temperature of 80ºC. Use manual program mode for clothes that shall be dried in lower temperatures.

Start program

Push button 5 to start the cabinet.

Pause program

To pause a working program, open the doors. The drying time is paused. The cabinet will start automatically when the doors are closed again. If the doors are left open for longer than 10 minutes, the program is interrupted.

Interrupt a program

To interrupt a working program, push the START/STOP button, 5.

Cool down

All programs, both manual and automatic ones, have a cool down phase of 15 minutes. This time is in the chosen time when you chose the manual programs. During cool down the clothes are reconditioned and the drying cabinet is cooled downed. Time and temperature cannot be changed.

If the doors are opened during the cool down, the fans will continue. This is the normal procedure.

CAUTION

If a program is interrupted before the cool down has finished, the ceiling of the cabinet could be very hot.

Installation during winter

If the cabinet shall be installed a cold winter day (below 0°C) and has been out in the cold, we recommend that it is kept inside a few hours before use.

Take good care of the cabinet

Only use a damp cloth with a mild detergent when cleaning the cabinet.

Never use solvent to clean the display.

Ventilation system

Loosen the ventilation pipe on the cabinet every year and clean if necessary around the evacuating channel.

IMPORTANT: Always switch off the electricity before starting to work with the cabinet.

Inspect with set intervals the complete ventilation channel; don’t forget the outer wall. There can easily be leafs and other rubbish that chokes.

We recommend that you once a year, take down the service doors and vacuum clean around the fans and elements.

Keep your cabinet efficient and economical

- The ventilation channels shall be as short as possible.
- Don’t load the cabinet with too much laundry.
- Take out the clothes that shall be ironed while they still are a bit damp.
- If possible, dry the same type of textiles at the same time.
- Don’t dry with maximum temperature if you don’t need to.

Notes